ABSTRACT OF THE DISCLOSURE

A gearbox actuator comprising a selector shaft 2 which is arranged in a housing and is driven by a drive. A shift finger 3 and disengaging shaped elements 4 used to actuate gearshift rails are arranged on the selector shaft, and jibs for 12-15 supporting and guiding the gearshift rails are arranged on the housing. The gearbox actuator 1 comprises the central selector shaft 2 mounted in bearing elements 19 and comprises a shift finger 3 and two disengaging shaped elements 4 arranged in the center thereof, at a distance corresponding to the width of a channel. Preferably, the selector shaft 2 is driven by a brushless motor 5 by means of a double planetary stage 6 and a toothed segment 7 which engages a toothed wheel 16 that is preferably positioned in a housing element 17. A preferably second brushless motor 8 drives a sliding element 37 by means of spindle 9, the sliding element displacing the shift finger 3 and the disengaging shaped elements 4 on the selector shaft 2.